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(71) *Applicants (for all designated States except US):* POSCO [KR/KR]; 1 Goedong-dong, Nam-ku, 790-300 Pohang-shi, Kyungsangbuk-do (KR). RESEARCH INSTITUTE OF INDUSTRIAL SCIENCE & TECHNOLOGY [KR/KR]; San 32, Hyoja-dong, Nam-ku, 790-330 Pohang-city, Kyungsangbuk-do (KR). VOEST-ALPINE INDUSTRIEANLAGENBAU GMBH [AT/AT]; Kaiser-Turmstrasse 44, A-4031 Linz (AT).

(72) Inventors; and

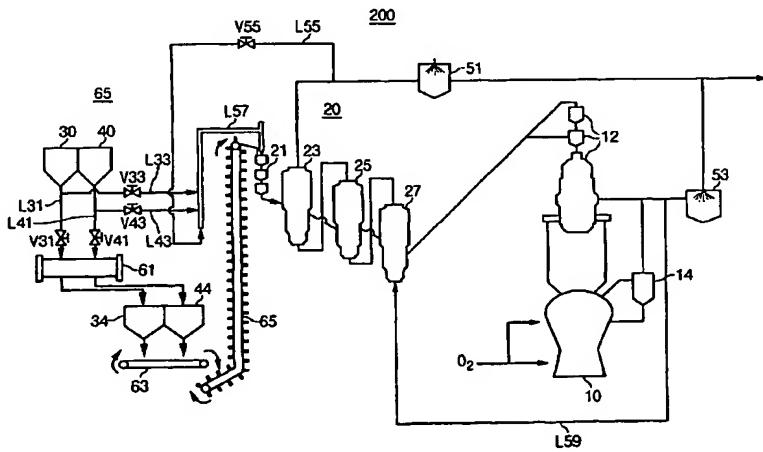
(75) **Inventors/Applicants (for US only):** NAM, Kung-Won [KR/KR]; San 32, Hyoja-dong, Nam-ku, 790-330 Po-hang-city, Kyungsangbuk-do (KR). CHO, Min-Young [KR/KR]; San 32, Hyoja-dong, Nam-ku, 790-330 Po-hang-city, Kyungsangbuk-do (KR). JUNG, Young-Chae [KR/KR]; San 32, Hyoja-dong, Nam-ku, 790-330 Po-hang-city, Kyungsangbuk-do (KR). JANG, Young-Jae [KR/KR]; San 32, Hyoja-dong, Nam-ku, 790-330 Po-hang-city, Kyungsangbuk-do (KR). HAUZENBERGER, F. [AT/AT]; Voest-Alpine Industrieanlagenbau GmbH, Turmstrasse 44, A-4031 Linz (AT).

(74) Agent: YOU ME PATENT & LAW FIRM; 825-33
Teheran Bldg., Yoksam-dong, Kangnam-Ku, Seoul
135-080 (KR).

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(54) Title: AN APPARATUS FOR MANUFACTURING MOLTEN IRONS TO DRY AND CONVEY IRON ORES AND ADDITIVES AND MANUFACTURING METHOD USING THE SAME



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(57) Abstract: The present invention relates to an apparatus and method for manufacturing molten irons. The method for manufacturing molten irons includes providing a mixture containing iron by drying and mixing iron ores and additives; passing the mixture containing iron through one or more successively-connected fluidized beds to convert the mixture into a reducing material that is reduced and calcined; forming a coal packed bed, which is a heat source in which the reducing material has been melted; charging the reducing material to the coal packed bed and supplying reducing gas exhausted from the coal packed bed to the fluidized bed. In the providing a mixture containing iron, exhaust gas exhausted from the fluidized bed is branched to dry at least one of the iron ores and the additives. The apparatus for manufacturing molten irons uses this method for manufacturing molten irons. Through the use of the present invention, at least one of iron ores and additives is dried and conveyed to thereby enhance energy efficiency and minimize the amount of required equipment.



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